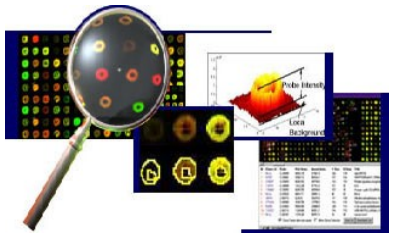
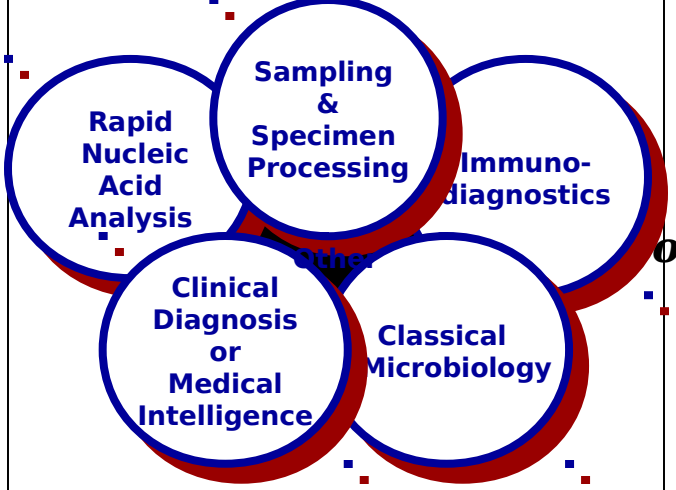


Medical S&T Initiatives

Providing medical solutions for military requirements to sustain and protect the force in chemical and biological environments

Sustaining and Expanding the Technology Base through:

- ***Basic Research***
- ***Development of:***
  - ***Vaccine/Pretreatment***



Contacts

(703) 325-2975
(703) 325-9609
(703) 325-8107

The goal of medical diagnostics is to employ FDA-approved systems to identify/confirm individual exposure to BW agents before symptoms develop and to quickly verify exposure to CW agents

Technology to advance the needs of the Warfighter

Joint Science and Technology Office for Chemical and Biological Defense

Diagnostics Capability Area

Medical Division

In the absence of complete proph diagnostic capabilities are essenti restoration of unit operational ef

Website: www.dtra.mil

Diagnostic Technologies

Technology Assessment

- Identify new technologies, conduct investigations to determine military usefulness of mature technologies
- Evolve towards highly portable integrated diagnostic system

Test, & Evaluation

- Develop animal model systems to validate diagnostic assays
- Test platforms & assays under field conditions

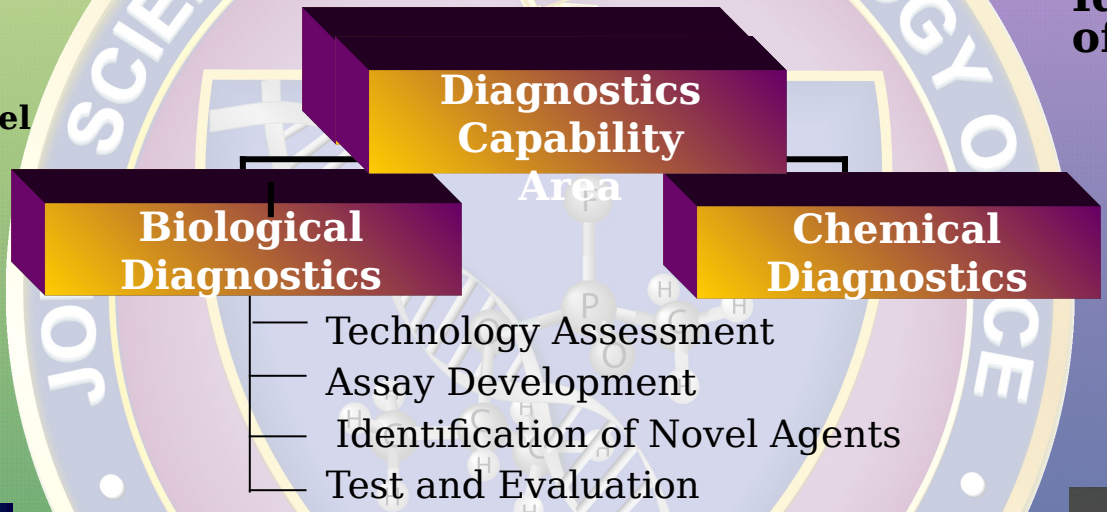
Biological Diagnostics

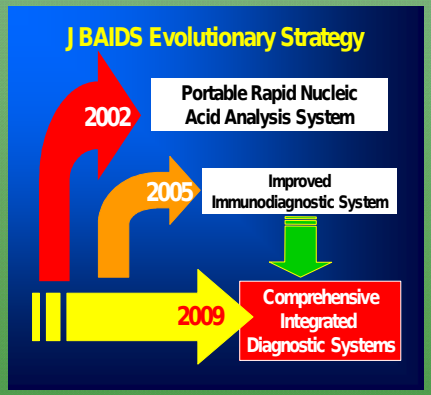
Assay Development

- Develop diagnostic assays for multiple platforms
- Refine sensitivity & specificity for BWA assays & reagents to enhance performance of fielded diagnostic systems

Identification of Novel Agents

- Identify novel age host-specific mar as targets to iden presence of/expo to BWA





Chemical Diagnostics

- Develop improved screening procedures/definitive analytical methods for verification of CWAs in biomedical samples
- Explore novel analytical screening methods for CWAs & their degradation products